

INTERNATIONAL SEARCH REPORT

National application No.

PCT/JP03/09532

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ D01F6/00, D01F6/60, D01F6/62, D01F6/84, D01F6/06, D01F6/16,
D01F6/04, D01F6/76, D01F8/12, B29B9/12, B29B7/46, B29B7/74,
C08L23/00, C08L67/00, C08L77/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ D01F6/00-6/96

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 8-158251 A (Kanebo, Ltd.), 18 June, 1996 (18.06.96), Full text; in particular, Claims; Par. No. [0020] (Family: none)	1-32, 45-47
X	JP 9-157943 A (Tokuyama Corp.), 17 June, 1997 (17.06.97), Full text (Family: none)	2-7, 9-16, 47
X	JP 60-155770 A (Teijin Ltd.), 15 August, 1985 (15.08.85), Full text (Family: none)	1-32, 45-47

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
10 October, 2003 (10.10.03)

Date of mailing of the international search report
28 October, 2003 (28.10.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

3/06
Checked
Primary Examiner
Ecl...

3/09
Checked
Primary
Examiner

INTERNATIONAL SEARCH REPORT

International Publication No.

PCT/JP03/09532

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 60-167969 A (Teijin Ltd.), 31 August, 1985 (31.08.85), Full text (Family: none)	1-32, 45-47
X	EP 0699784 A (Toyo Boseki Kabushiki Kaisha), 06 March, 1996 (06.03.96), Full text & JP 8-113829 A	1-16
A	JP 2-175965 A (Teijin Ltd.), 09 July, 1990 (09.07.90), Full text (Family: none)	1-32, 45-47
A	JP 7-97720 A (Tetra International Kabushiki Kaisha), 11 April, 1995 (11.04.95), Full text (Family: none)	1-32, 45-47
A	JP 55-137208 A (Mitsubishi Rayon Co., Ltd.), 25 October, 1980 (25.10.80), Full text (Family: none)	1-32, 45-47
A	US 5238735 A (Tokuyama Soda Kabushiki Kaisha), 24 August, 1993 (24.08.93), Full text & JP 1-293102 A	1-32, 45-47